

Appln No. 10/573,230  
Amdt date July 21, 2011  
Reply to Office action of March 24, 2011

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

- 1-4. (Cancelled)
5. (Currently Amended) A sustained release pheromone formulation consisting of:  
an insect-derived pheromone or a synthesized pheromone having the same molecular structure as the insect-derived pheromone as a communication disturbing agent; and  
a substrate for containing the pheromone consisting of a calcined crystalline mineral prepared by steps consisting essentially of firing a crystalline mineral, in a powder form with a particle size of 2 to 20  $\mu\text{m}$ , selected from the group consisting of clay minerals of a multiple-chain structure type having a fibrous form, 2:1 clay minerals having a tabular form, and silicas, at 500 to 700°C for a time period of from 5 to 120 minutes.
6. (Previously Presented) The sustained release pheromone formulation according to claim 5, wherein said crystalline mineral is a crystalline clay mineral.
7. (Cancelled)
8. (Cancelled)
9. (Previously Presented) The sustained release pheromone formulation according to claim 5, wherein the pheromone content is 1 to 30 mass % relative to the total mass of said crystalline mineral and said pheromone.
10. (Previously Presented) The sustained release pheromone formulation according to claim 6, wherein the pheromone content is 1 to 30 mass % relative to the total mass of said crystalline mineral and said pheromone.

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11. (Previously Presented) The sustained release pheromone formulation according to claim 7, wherein the pheromone content is 1 to 30 mass % relative to the total mass of said crystalline mineral and said pheromone.

12. (Previously Presented) The sustained release pheromone formulation according to claim 8, wherein the pheromone content is 1 to 30 mass % relative to the total mass of said crystalline mineral and said pheromone.

13. (Previously Presented) The sustained release pheromone formulation according to claim 5, wherein the crystalline mineral is one selected from the group consisting of sepiolite, palygorskite and montmorillonite.

14. (Previously Presented) The sustained release pheromone formulation according to claim 7, wherein the crystalline mineral is one selected from the group consisting of sepiolite, palygorskite and montmorillonite.

15. (Previously Presented) The sustained release pheromone formulation according to claim 9, wherein the crystalline mineral is one selected from the group consisting of sepiolite, palygorskite and montmorillonite.

16. (Previously Presented) The sustained release pheromone formulation according to claim 11, wherein the crystalline mineral is one selected from the group consisting of sepiolite, palygorskite and montmorillonite.

17. (Previously Presented) The sustained release pheromone formulation according to claim 5, wherein the time period is from 30 to 60 minutes.

18. (Previously Presented) The sustained release pheromone formulation according to claim 6, wherein the time period is from 30 to 60 minutes.

19. (Previously Presented) The sustained release pheromone formulation according to claim 9, wherein the time period is from 30 to 60 minutes.

20. (Previously Presented) The sustained release pheromone formulation according to claim 10, wherein the time period is from 30 to 60 minutes.

21. (Previously Presented) The sustained release pheromone formulation according to claim 11, wherein the time period is from 30 to 60 minutes.

22. (Previously Presented) The sustained release pheromone formulation according to claim 12, wherein the time period is from 30 to 60 minutes.

23. (Currently Amended) A sustained release pheromone formulation consisting essentially of:

an insect-derived pheromone or a synthesized pheromone having the same molecular structure as the insect-derived pheromone, as a communication disturbing agent; and

a substrate for containing the pheromone consisting of a calcined crystalline mineral prepared by steps consisting essentially of firing a crystalline mineral, in a powder form with a particle size of 2 to 20  $\mu\text{m}$ , selected from the group consisting of clay minerals of a multiple-chain structure type having a fibrous form, 2:1 clay minerals having a tabular form, and silicas, at 500 to 700°C for a time period from 5 to 120 minutes.

24. (Currently Amended) A sustained release pheromone formulation consisting of: an insect-derived pheromone or a synthesized pheromone having the same molecular structure as the insect-derived pheromone, as a communication disturbing agent;

a substrate for containing the pheromone consisting of a calcined crystalline mineral prepared by steps consisting essentially of firing a crystalline mineral, in a powder form with a particle size of 2 to 20  $\mu\text{m}$ , selected from the group consisting of clay minerals of a multiple-chain structure type having a fibrous form, 2:1 clay minerals having a tabular form, and silicas, at 500 to 700°C for a time period from 5 to 120 minutes; and

at least one reagent selected from the group consisting of an antioxidant, a UV absorber, and an organic solvent.